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NOTICE OF ALLOWANCE AND FEE(S) DUE

22852

7590

03/05/2004

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER
LLP
1300 I STREET, NW
WASHINGTON, DC 20005

EXAMINER

BAUM, RONALD

PAPER NUMBER

ART UNIT

DATE MAILED: 03/05/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/388 388	09/01/1999	FUMIHIKO SANO	04329.2163	3921

TITLE OF INVENTION: ENCRYPTION/DECRYPTION UNIT AND STORAGE MEDIUM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 22852 7590 03/05/2004 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE]	FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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nonprovisional	NO	\$1330)	\$0	\$1330	06/07/2004	
EXAM	IINER	ART UN	IT C	LASS-SUBCLASS			
BAUM, R		2135		380-042000			
Address form PTO/SB/12 "Fee Address" indicating PTO/SB/47; Rev 03-02 on Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submittee (A) NAME OF ASSIGNITE Please check the appropriate	on (or "Fee Address" Indicator more recent) attached. Us RESIDENCE DATA TO E an assignee is identified bed to the USPTO or is being EE	tion form te of a Customer BE PRINTED ON To the second submitted under second (B) Ories (will not be printed to the second (B)	firm (having as agent) and the nattorneys or agent will be printed. THE PATENT (print at a will appear on the parate cover. Complete RESIDENCE: (CI	e patent. Inclusion of etion of this form is N FY and STATE OR C	d attorney or istered patent sted, no name 3		
4a. The following fee(s) are	enclosed:	4b	Payment of Fee(s):				
☐ Issue Fee ☐ Publication Fee				nount of the fee(s) is out to the card. Form PTO-20.			
☐ Advance Order - # of 6	Copies		•		charge the required fee(s), or	credit any overpayment, to	
			Deposit Account N	ımber	d issue fee to the application ide	copy of this form).	
(Authorized Signature)		(Date)				-	
other than the applicant; interest as shown by the rec	d Publication Fee (if require a registered attorney or agcords of the United States P	gent; or the assigned atent and Trademar	ce or other party in k Office.				
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450, DO NOT SEND TO: Commissioner Under the Paperwork Re	tion is required by 37 CFF by the public which is to for its property of the public which is to form the public which is to form to the USPTO. Time with the amount of time you his burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Virulation of the public with the public with the public with the public with the public which is not provided the public which is not public which is not provided the public which is not provided the public which is not provided the public which is not public which is not provided the public which is to form the public which is not provided the public w	to the Chief Inform of Commerce, A ETED FORMS TO rginia 22313-1450.	mation Officer, U.S. Alexandria, Virginia O THIS ADDRESS				

TRANSMIT THIS FORM WITH FEE(S)







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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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		EXAMINER				
FINNEGAN, HENDERSON, FARABOW, GARRETT &			BAUM, R	BAUM, RONALD		
DUNNER LLP	DUNNER		ART UNIT	PAPER NUMBER		
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WASHINGTON	N, DC 20005	· · · · · · · · · · · · · · · · · · ·	DATE MAILED: 03/05/2004	4 12		

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



	Application No.	Applicant(s)
	09/388,388	SANO ET AL.
Notice of Allowability	Examiner	Art Unit
	Ronald Baum	2135
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>2/05/2004</u> .		·
2. The allowed claim(s) is/are 10-13.		
3. The drawings filed on are accepted by the Examine	r.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in time. 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	e been received. e been received in Application No currents have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declar est be submitted. Son's Patent Drawing Review (PTO . s Amendment / Comment or in the of .84(c)) should be written on the drawing he header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient. 9-948) attached Office action of ings in the front (not the back) of (d). must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amend	ate

Examiner's Statement of Reasons for Allowance

- 1. Claims 10-13 are allowed over prior art.
- 2. This action is in reply to applicant's correspondence of 05 February 2004.
- 3. The following is an examiner's statement of reasons for the indication of allowable claimed subject matter.
- 4. As per claim 10, prior art of record, Coppersmith et al, U.S. Patent 5,768,390, or, Coppersmith et al, U.S. Patent 5,454,039, or Feidmeier fails to teach explicitly, or in combination with prior art of record, of the use of a key generating means utilizing a DES-SS key schedule means for intermediate keys K1 and K3.

Dependent claims 11-13 are allowable by virtue of their dependencies.

Conclusion

5. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (703) 305-4276. The examiner can normally be reached Monday through Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu, can be reached at (703) 305-4393. The Fax number for the organization where this application is assigned is 703-872-9306.

Ronald Baum

Patent Examiner